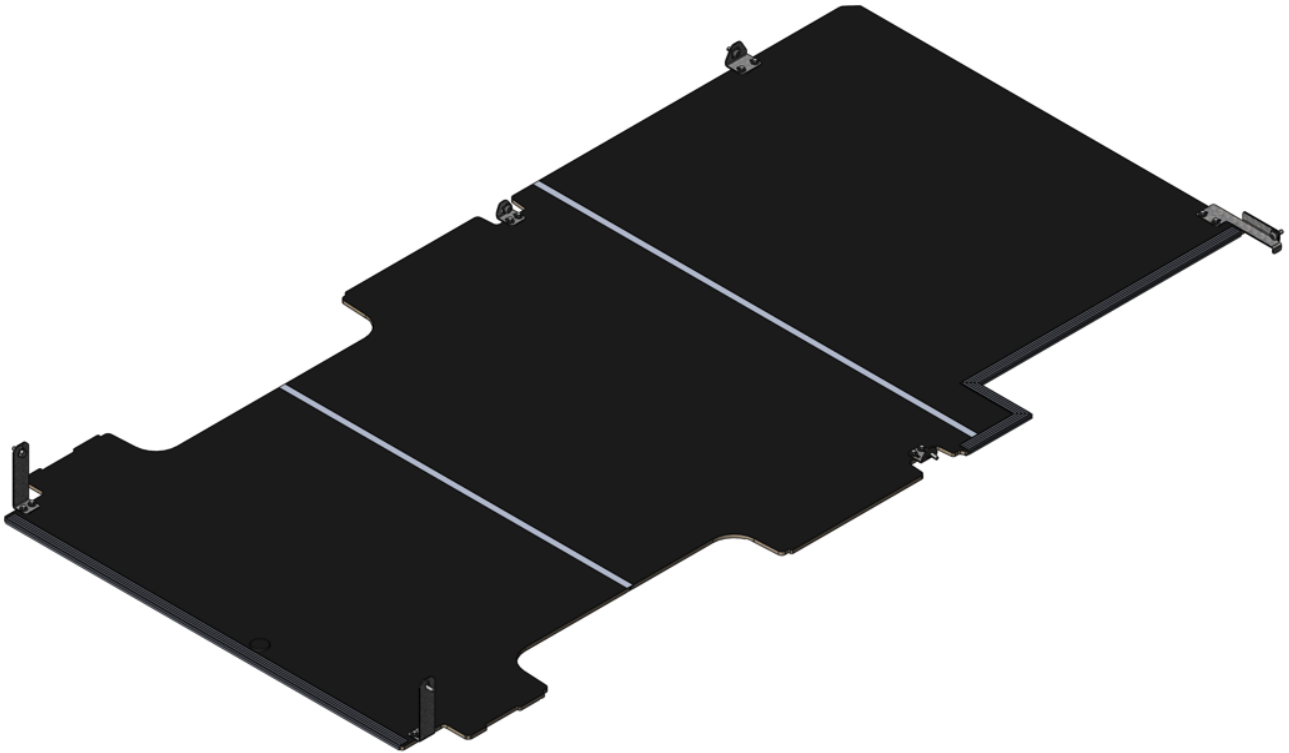


INSTALLATION GUIDE



6541-FTL FLOOR

Transit (148" Wheelbase)



Scan the QR for the latest Install-Guide.





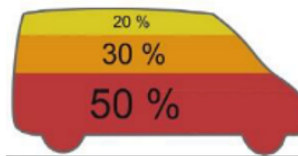
BEFORE YOU BEGIN

READ, UNDERSTAND, AND FOLLOW ALL WARNINGS AND INSTRUCTIONS BEFORE USING THIS PRODUCT. FAILURE TO FOLLOW THESE DIRECTIONS MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY, AND/OR DEATH. RANGER DESIGN IS NOT RESPONSIBLE FOR ANY PROPERTY DAMAGE, PERSONAL INJURY, OR DEATH THAT OCCURRED WHILE USING ANY RANGER DESIGN PRODUCTS.



WARNING

- Failure to use Ranger Design-provided fasteners, brackets, and proper installation guidelines could increase risk of serious personal injury and/or death.
- If drilling is required to complete this installation: improper drilling can cause property damage to vehicles and could lead to electric shock, fire, or even death.
- If drilling is required to complete this installation: Ensure that drilling is only performed on areas of the vehicle allowed by the vehicle's Original Equipment Manufacturer's Body Builders Layout Book (or equivalent document).
- Prior to installation, inspect the vehicle to ensure that installation will not interfere with, or cause obstruction of, any critical components such as electrical wiring, fuel tanks, fuel-cells, locks, latches, etc.
- The installer or manufacturer is responsible for ensuring anchorages are installed onto suitable wall and floor structures; wall and floor strength must meet applicable performance requirements.
- Do not install systems into any weak or unsound materials such as plastics, woods, thin-walled metals, etc. without proper reinforcement.
- Do not install this product where it could interfere with the deployment of airbags. Failure to comply could result in death or serious injury.
- Incorrect installation could cause water leaks, electric shock or fire.
- Any cargo vehicle with any cargo or equipment should use a certified partition. See Ranger Design website for some partition options. (<https://rangerdesign.com/>)
- Mountings rails are recommended for any attachment to the vehicle walls.
- All items in the cargo area should be properly secured and partition doors closed while the vehicle is in motion.
- Check your vehicle's tare weight and remaining load capacity with all the equipment installed. Never exceed the maximum Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Ratings (GAWRs), or other maximum loads permitted by the vehicle's Original Equipment Manufacturer (OEM) and required by law.
- The heaviest items must be placed towards the bottom of the vehicle, while the lightest ones can be arranged upwards. Vehicle cargo loading weight proportion should follow the following guidelines:



- The final alterer and/ or modifier should review the warning sheet with the customer before the vehicle is released to the customer or for general use. These instructions should remain with the vehicles a all times.
- Any modification or unintended use of this product voids any warranty and could create a hazardous condition.
- Ranger Design provides recommended assembly and installation instructions which should be followed to ensure correct operation. Failure to do so could result in invalidating the product's compliance, warranty and cause injury. Notwithstanding, the final stage vehicle alterer and/or modifier is responsible for the integration, installation, and compliance of the product in its final location to all applicable regulations and standards. Failure to maintain compliance of the vehicle to applicable regulations and standards could be punishable by law. Alterers and/or modifiers should consult with all local authorities prior to commissioning.



CAUTION

- If drilling is required to complete this installation. Before drilling, ensure that you will not hit any critical parts of the vehicle like the gas tank, wiring harness, or hose. Consult the vehicle OEM documentation as necessary. When drilling, use a drill collar to reduce the risk of damage to the vehicle.
- Any materials, padding, or glazing installed in the vehicle must comply with FMVSS/CMVSS 201/205/302, as applicable.
- In the event of a motor vehicle accident or collision where a Ranger Design system has been installed, especially ones where the vehicle structure is damaged and/or the air bags deploy and/or the vehicle has been towed, the system must be inspected to ensure continued soundness and safety before returning the vehicle to service. Damaged components should be replaced as necessary.
- All system components should be regularly inspected, cleaned, and maintained pursuant to Ranger guidelines.

QUICK START GUIDE

Phase 1 - Assembly

1.1 Setup..... 4

Phase 2 - Installation

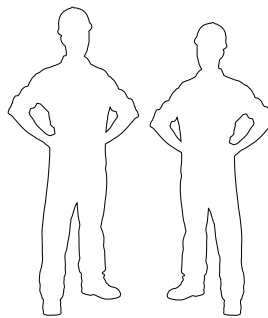
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Phase 3 - Add-ons

3.1 Typical Unit Installation..... 11

REQUIRED ITEMS

- Oscillating Tool
- Drill
- Impact
- Socket 3/4"
- Socket 5/16"
- Socket Hex 5/16"
- Rubber Mallet
- Wrench 5/16"
- Socket 1/2"
- Torx 3/8" Socket
- Drillbit 7/16"
- Drill Stop Collar
- Marker

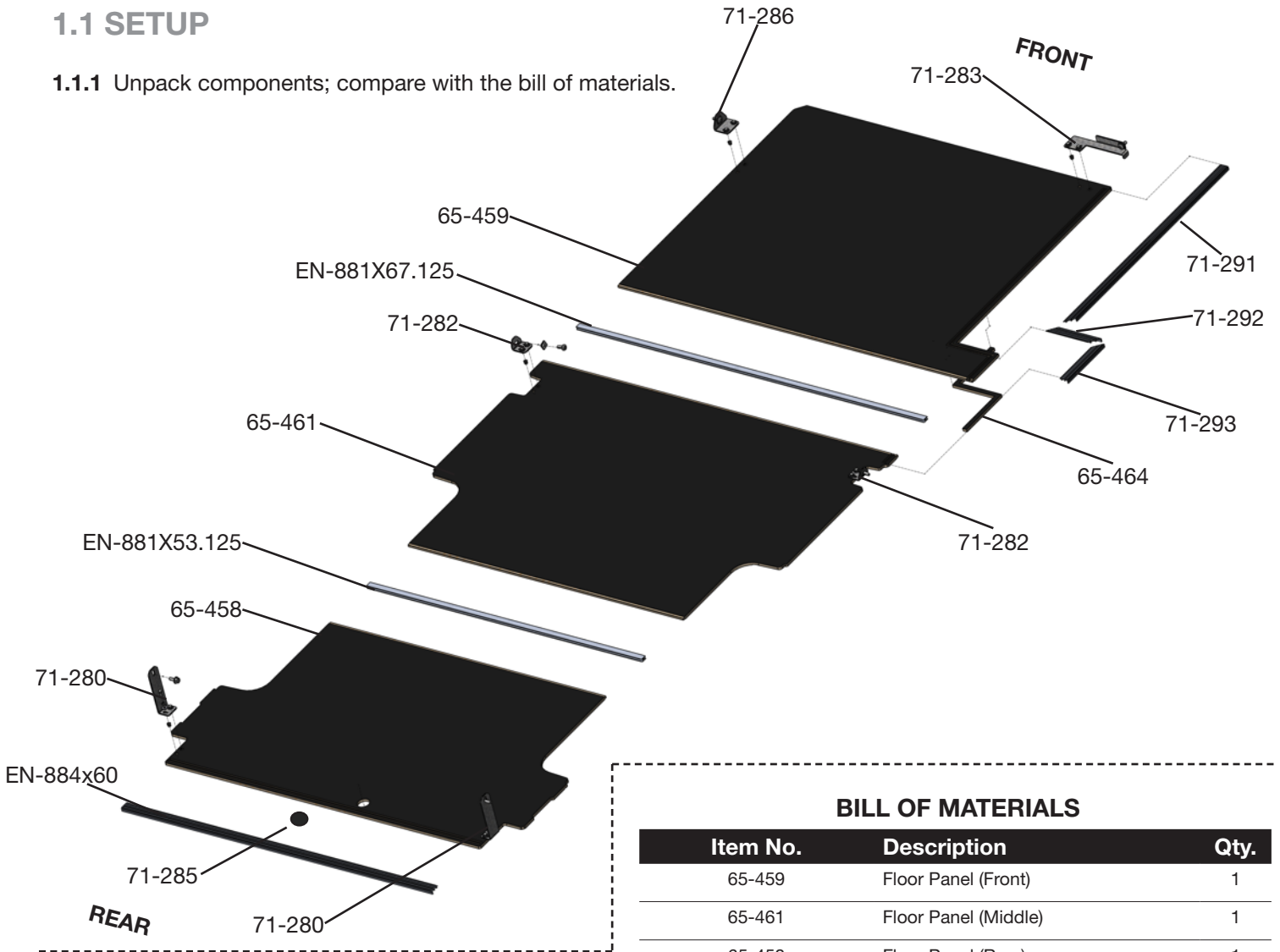


**2
PERSONS**

PHASE 1 – ASSEMBLY

1.1 SETUP

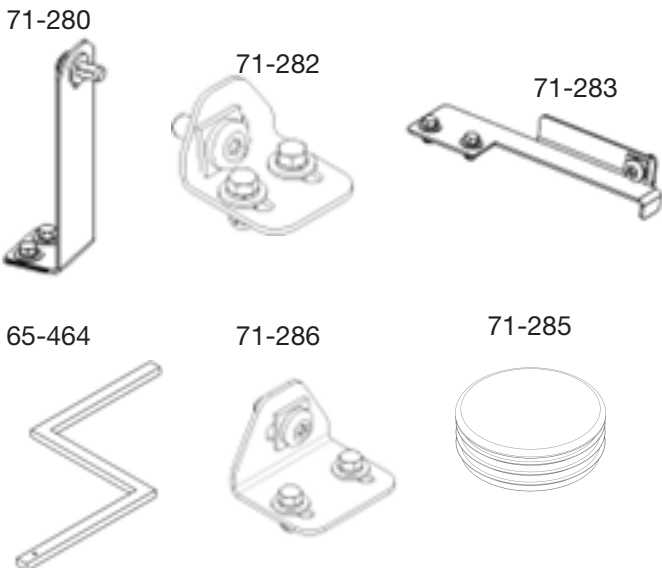
1.1.1 Unpack components; compare with the bill of materials.



BILL OF MATERIALS

Item No.	Description	Qty.
65-459	Floor Panel (Front)	1
65-461	Floor Panel (Middle)	1
65-458	Floor Panel (Rear)	1
EN-881 x 53.125	I-Beam Extrusion (53.125")	1
EN-881 x 67.125	I-Beam Extrusion (67.125")	1
EN-884 x 60	Sill Extrusion (60")	1
71-291	Sill Extrusion w/ 1x 45deg cut (41.50")	1
71-292	Sill Extrusion w/ 2x 45deg cuts (9.62")	1
71-293	Sill Extrusion w/ 1x 45deg cut (9.63")	1
71-280	Floor Bracket, ProPower	2
71-282	Floor Bracket, B-Pillar	2
71-283	Bracket, Floor to D-Ring	1
65-464	Shim, Floor	1
71-285	Snap-in Plug	1
71-286	Transit Floor Bracket	1
94-6501	Assembly Fastener Kit	1
96-6500	6541 Series Floor Fastener Kit	1

1.1.2 Verify all parts are present.



1.1.3 Fastener kits.

94-6501 Fastener Kit

- 4x**



90-010

Torx Screw
7/16"-20 x 28mm
T-50 Taptime
- 12x**



90-204

Hex Screw
5/16"-18 x 3/4"
ZINC
- 6x**



92-200

Hex Screw
#10-16 x 3/4"
ZINC
- 12x**



98-116

Flat Washer
5/16", 7/8" OD
ZINC
- 12x**



98-122

Lock Washer
Regular 5/16"
ZINC
- 4x**



98-141

Square Washer
0.438" ID, 1" Square
- 12x**



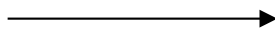
99-114

Wood Inserts
5/16"-18
ZINC
- 2x**




90-981


Hex Screw
M12 x 30mm
Taptime



Fastener Install

4x

- 

#90-010 Torx Screw 7/16"-20 x 28mm
- 

#98-141 Square Washer

12x

- 


#90-204 Hex Bolt 5/16" x 3/4"
- 

#98-122 Lock Washer 5/16"
- 

#98-116 Flat Washer 5/16"
- 


#99-114 Wood Inserts

6x

- 

#92-200 Hex Screw #10-16

2x

- 

#90-981 Hex Screw M12 x 30mm

96-6500 Fastener Kit

- 30x**



90-204

Hex Screw
5/16"-18 x 3/4"
ZINC
- 30x**




99-114


Wood Inserts
5/16"-18
ZINC



Fastener Install

30x

- 

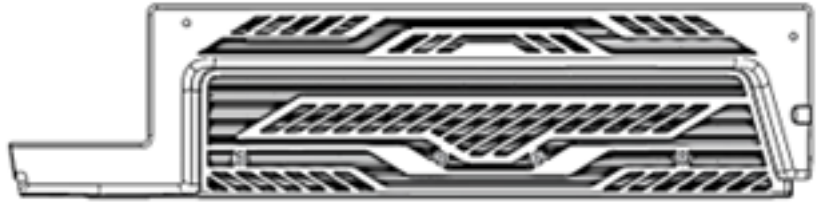
#90-204 Hex Bolt 5/16" x 3/4"
- 

#99-114 Wood Inserts

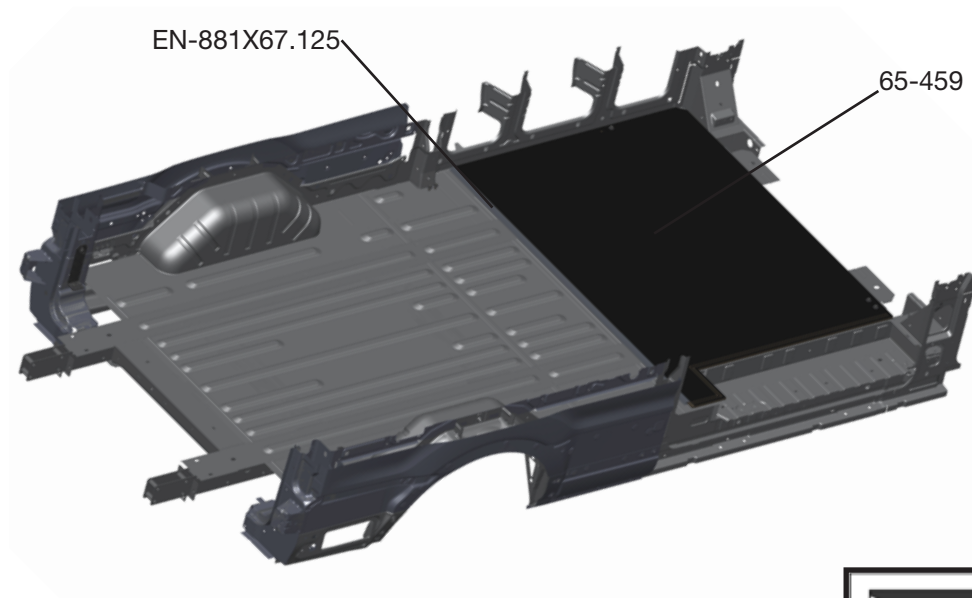
PHASE 2 – INSTALLATION

2.1 INSTALLATION

2.1.1 Remove all the D-rings if needed and Sliding door plastic sill before installing the panels.



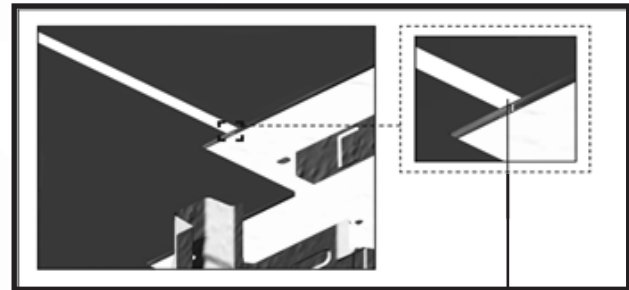
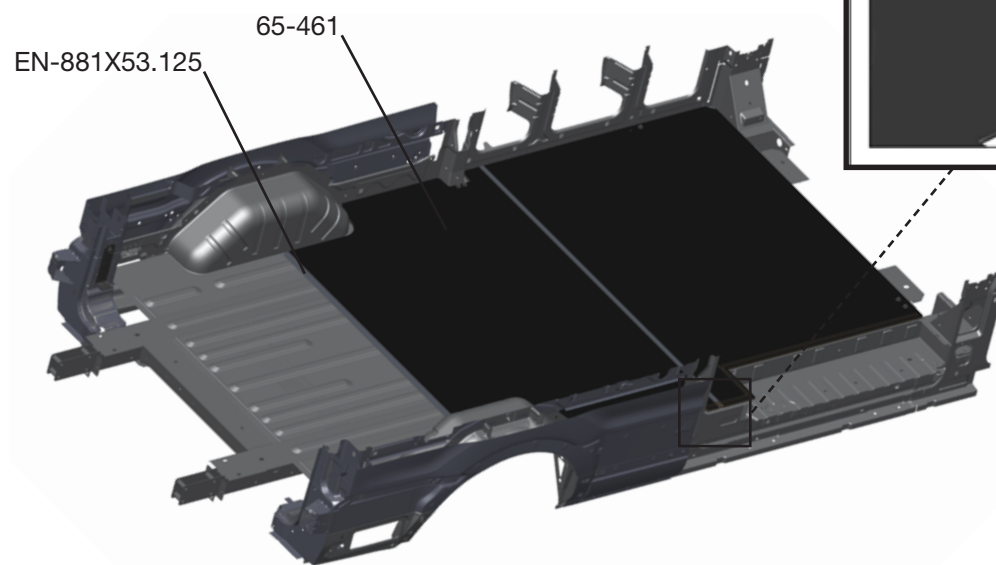
2.1.2 Place front panel in vehicle and add first I-Beam.



TOOLS
☐ Rubber Mallet

NOTE:
For dual wheel vans, cut floor panel using underside guidelines.
If ProPower unit is installed, cut floor panel using underside guidelines.

2.1.3 Place middle panel in vehicle and add second I-Beam.



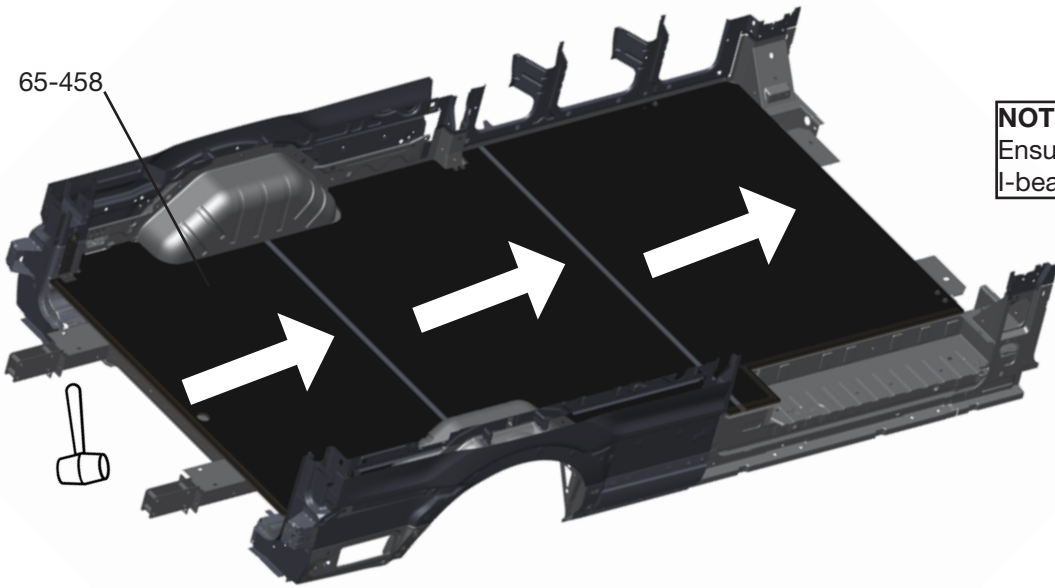
NOTE: Center the I-Beam extrusions to the panels

TOOLS
☐ Rubber Mallet

2.1.4 Place rear panel in vehicle.

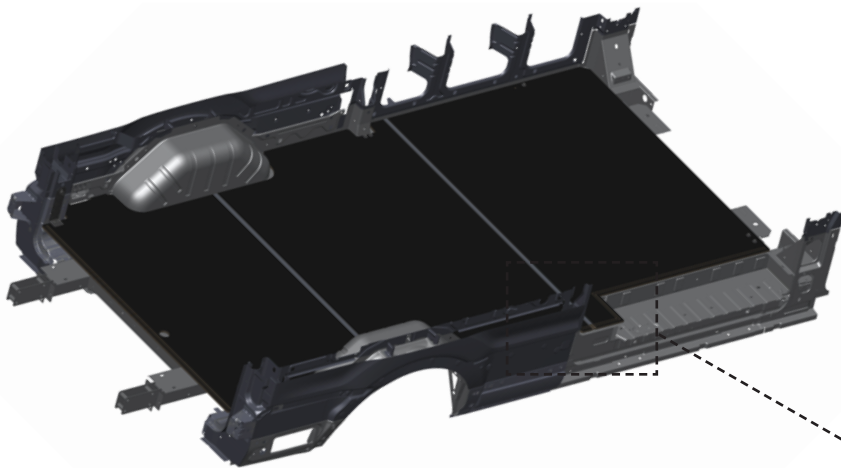
TOOLS
☐ Rubber Mallet

65-458

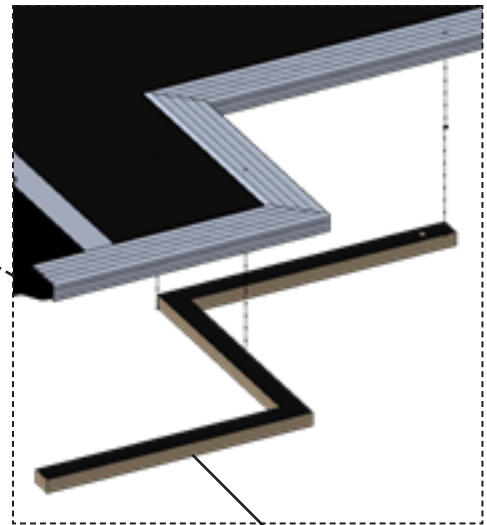


NOTE:
Ensure that floor panels fit into the I-beams. Use a rubber mallet.

2.1.5 Add shim underneath front and middle panel. (Passenger Side)



NOTE:
The hole on the shim should be oriented to the front of the vehicle.



65-464

2.1.6 Fasten front panel to vehicle.

Wood Insert Installation:

TOOLS	
<input type="checkbox"/> Wrench	✓
<input type="checkbox"/> 5/16" Hex Socket	✗

TOOLS

- 5/16" Socket
- Ratchet
- 5/16" Hex Socket

HARDWARE USED
4x

	#90-204 Hex Bolt
	#98-122 Lock Washer
	#98-116 Flat Washer
	#99-114 Wood Inserts

TOOLS

- 3/8" Torx Socket
- Ratchet

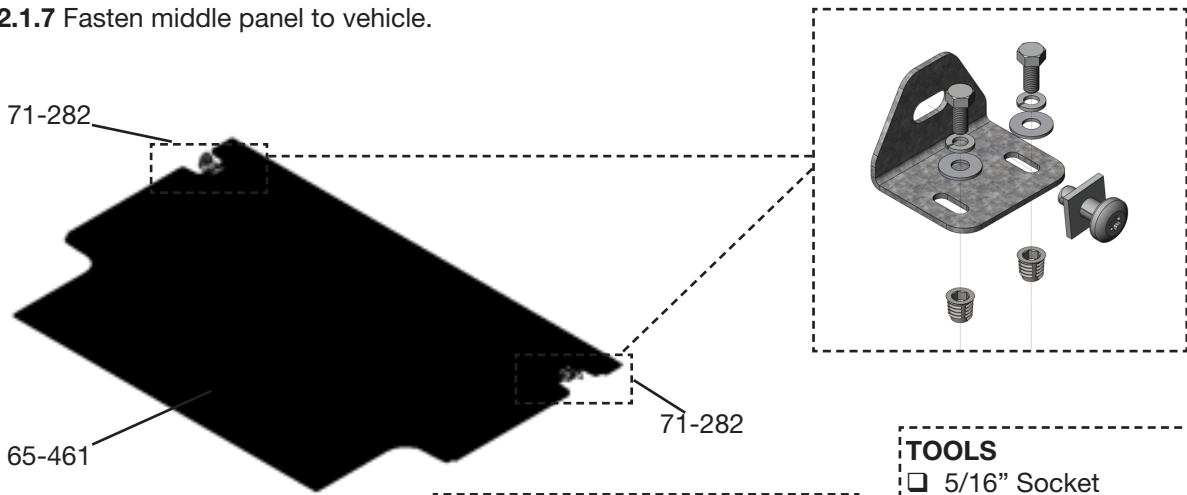
HARDWARE USED
2x

	#90-010 Torx Screw
	#98-141 Square Washer

5/16"	17 ft-lbs
7/16"	17 ft-lbs

NOTE:
Do not install 71-283 if you are installing a Ranger Design partition on top of the Ranger Design floor.

2.1.7 Fasten middle panel to vehicle.



5/16"	17 ft-lbs
7/16"	17 ft-lbs

TOOLS

- 3/8" Torx Socket
- Ratchet

HARDWARE USED
2x

	#90-010 Torx Screw
	#98-141 Square Washer

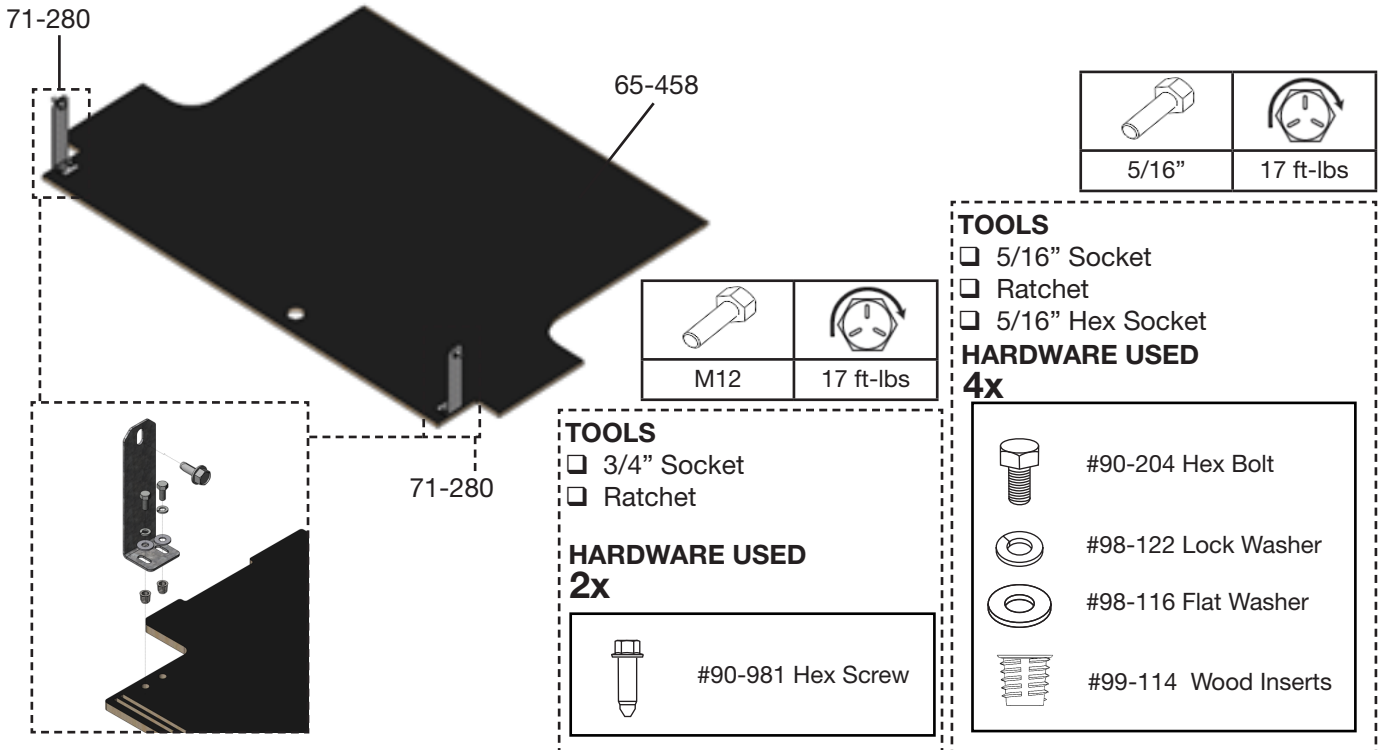
TOOLS

- 5/16" Socket
- Ratchet
- 5/16" Hex Socket

HARDWARE USED
4x

	#90-204 Hex Bolt
	#98-122 Lock Washer
	#98-116 Flat Washer
	#99-114 Wood Inserts

2.1.8 Fasten rear panel to vehicle.



5/16"	17 ft-lbs

M12	17 ft-lbs

TOOLS

- 3/4" Socket
- Ratchet

HARDWARE USED
2x

	#90-981 Hex Screw
--	-------------------

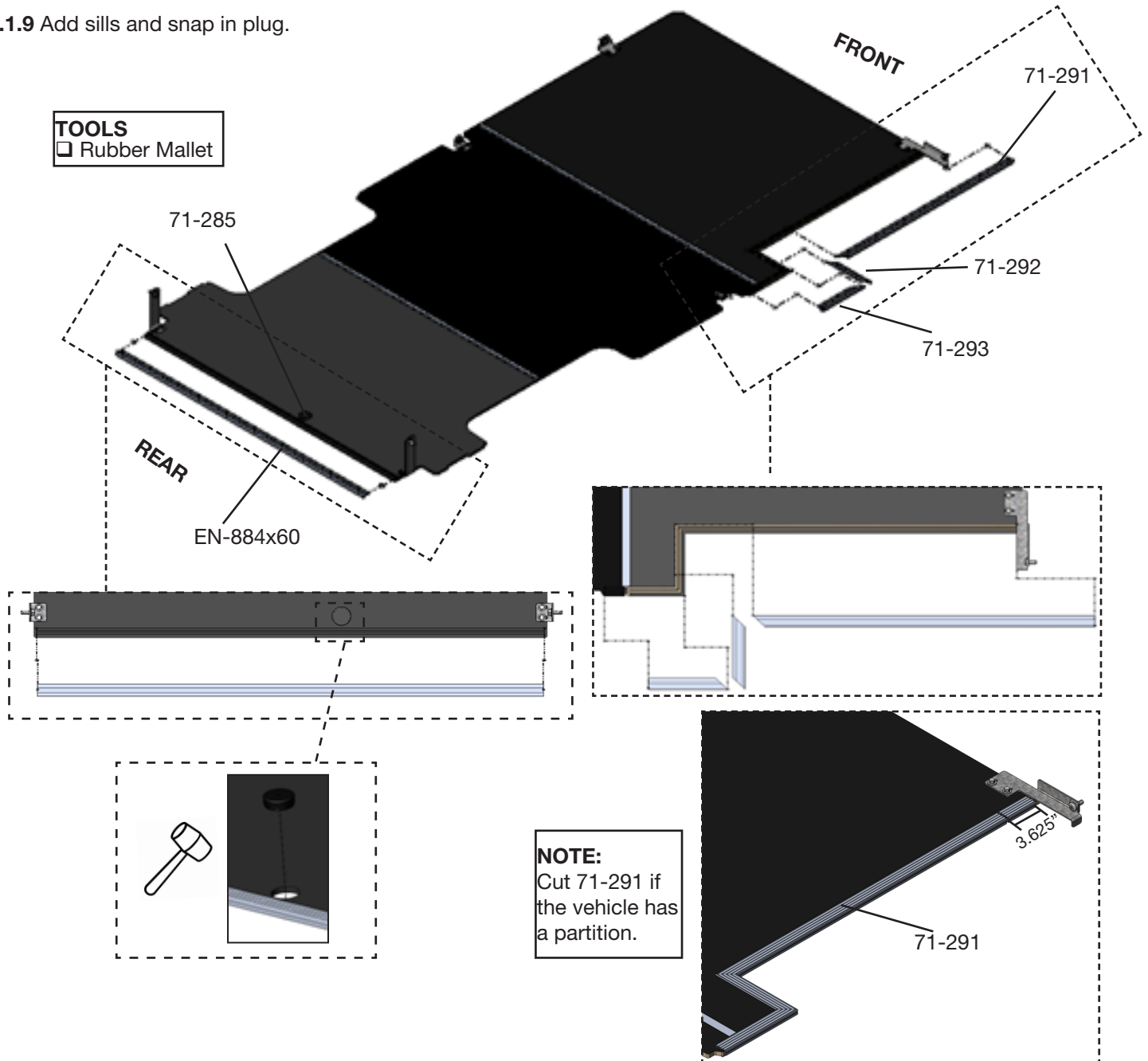
TOOLS

- 5/16" Socket
- Ratchet
- 5/16" Hex Socket

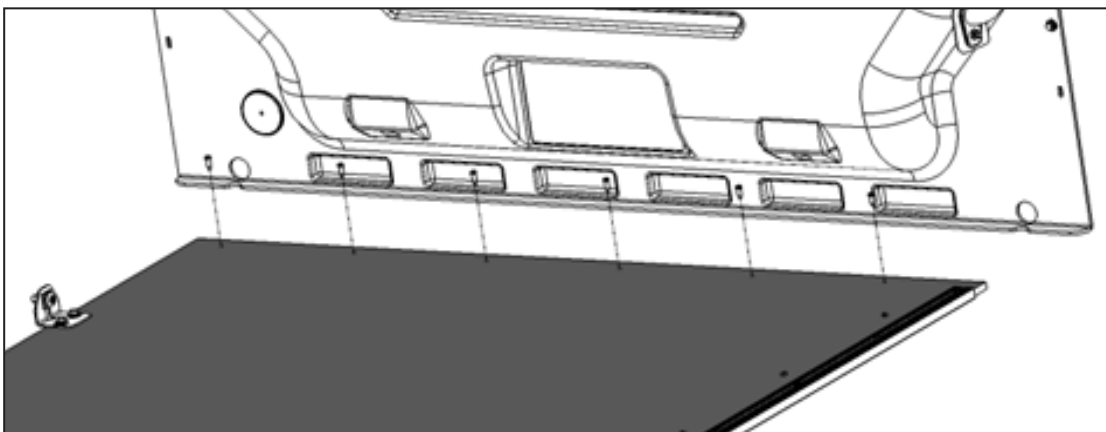
HARDWARE USED
4x

	#90-204 Hex Bolt
	#98-122 Lock Washer
	#98-116 Flat Washer
	#99-114 Wood Inserts


2.1.9 Add sills and snap in plug.



2.2 FOR COMPOSITE PARTITION ONLY

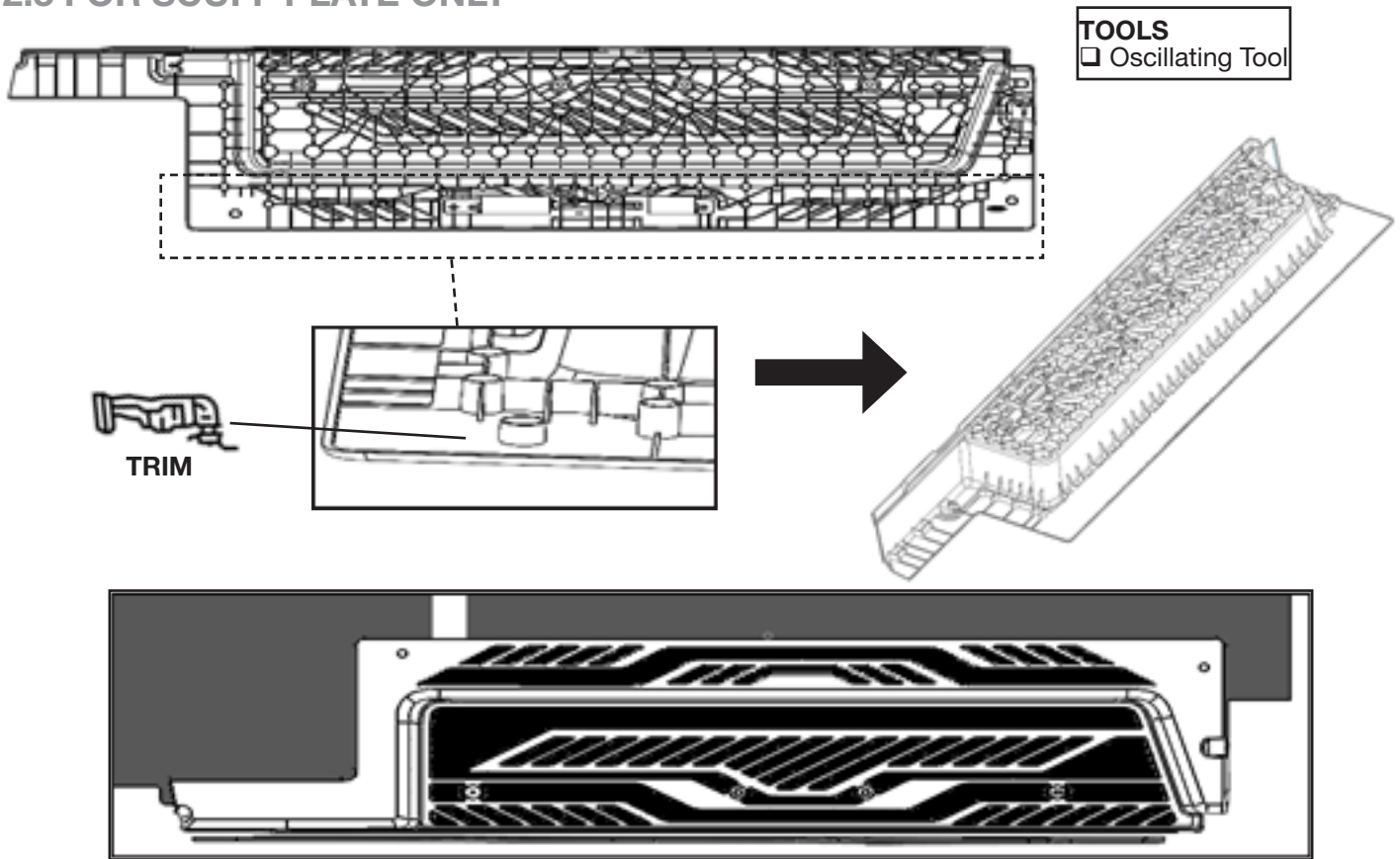


HARDWARE USED
6x



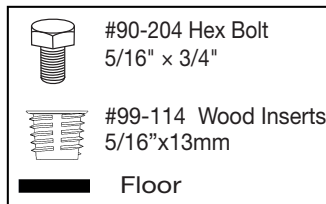
#92-200 Hex Screw

2.3 FOR SCUFF PLATE ONLY



PHASE 3 – ADD-ONS

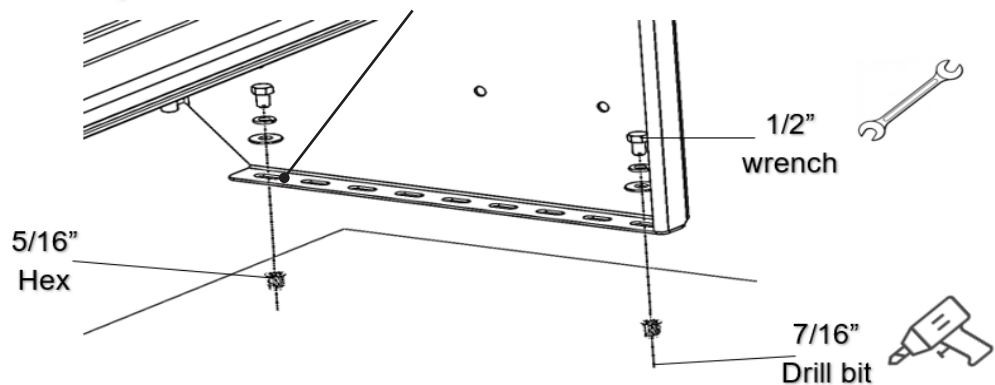
3.1 TYPICAL UNIT INSTALLATION



TOOLS

- Hex Key 5/16"
- Drill
- Drill Stop Collar
- Drill Bit 7/16"
- Wrench 1/2"

**NOTE: Use 5/16" washers and lock-washers.
(Not included)**



"You have successfully installed your Floor, thank you for doing business with us."

For any feedback or suggestions, you may have, please contact: cs@rangerdesign.com